

teaches the use of a *presenlin-1 binding protein*, and the '143 patent describes several presenlin-1 binding proteins, e.g., S5a subunit of the 26S proteasome, the GT24 protein and Rab11 (col. 8, ll. 6-10). The '143 patent does not teach or suggest the use of PAMP, let alone teach a specific PAMP amino acid sequence.

Not only does Claim 1 fail to specifically teach PAMP or any PAMP amino acid sequences, the claim provides no guidance or suggestion that would lead one of ordinary skill to select any one of the amino acid sequences recited in claim 10 in a method for identifying candidate compound for treating a neuropsychiatric or neurodevelopmental disorder.

Claim 1 of the '143 patent is directed to a method of identifying substances that affect the interaction of a presenilin-1-interacting protein with a mammalian presenilin-1 protein. Claim 1 does not teach that the method recited therein may be used to identifying a candidate compound for treating a neuropsychiatric or neurodevelopmental disorder as provided in the present application. The present application teaches a method of identify candidate compounds by detecting the difference in PAMP activity in the presence of a test compound (see, e.g., p. 5, ll. 3-6). The present application further teaches that alteration in PAMP activity correlates with secretion of A β which is associated with neuropsychiatric and/or neurodevelopmental disorder(s) (see, e.g., Example 2, p. 44, ll. 13-19). Provided the teachings of claim 1 of the '143 patent, one skilled in the art would not be motivated to modify the method of claim 1 to identifying a candidate compound for treating a neuropsychiatric or neurodevelopmental disorder, as there is no suggestion that the method of claim 1 could be modified for such a use, either in the prior art or in the claim itself.

Because there are differences between claim 1 of the '146 patent and claim 10 of the instant application and these differences would not have been obvious to one of ordinary skill, claim 10 and dependent claim 11 are patentably distinct over claim 1. Therefore claim 1 does not render obvious either claim 10 or dependent claim 11. *In re Gulack*, 703 F.2d 1381, 1385 (Fed. Cir. 1983) (For a claim to be obvious over the prior art, the prior art must teach or suggest each and every limitation of the claimed invention.) See also MPEP §2143.03 (8th ed., 2004).

Claims 10 and 11 are similarly non-obvious over claims 1-6 of the '758 patent. Like the claims of the '143 patent, there are differences between the claims of the '758 patent and claim 10

CONCLUSIONS

In view of the foregoing amendments and remarks, it is respectfully requested that the application be reconsidered and that all pending claims be allowed and the case passed to issue.

If there are any other issues remaining, which the Examiner believes could be resolved through either a Supplemental Response or an Examiner's Amendment, the Examiner is respectfully requested to contact the undersigned at the telephone number indicated below.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'M. Sullivan', is written over a horizontal line.

Michael J. Sullivan
Reg. No. 54,479
Attorney for Applicants

DARBY & DARBY, P.C.
Post Office Box 5257
New York, NY 10150-5257
Phone (212) 527-7700